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IVANOV, N.F.; SIVKOV, Yu.P.; SOLNYSHKOV, A.I.

Measuring the phase volume of the ion beam from the injector of a linear accelerator. Prib. i tekh.eksp. 10 no.5:30-34 (MIRA 19:1) S-0 '65.

1. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR, Leningrad.

L 26513-66 ENT(m) IJP(c) GS ACCESSION NR: AT6012260	SOURCE CODE: UR/0000/65/000/	000/0001/0017
AUTHORS: Sivkov, Yu. P.; Solnyshkov, A	. I.	B+1
ORG: nort		lensity of the
TITLE: Limitations of <u>accelerator</u> currections in the phase volume	rent, connected and	Doklady
SOURCE: USSR. Gosudarstvennyy komitet 1965. Ogranicheniya toka v uskoritele,	po ispol'zovaniyu atomnoy ene svyazannyye s predel'noy plot	nost yu chastits
v fazovom ob yeme, . 1-11	using accelerator, high energy	
Laborate Manticul Desiration		
ABSTRACT: The author discusses method creasing the acceptance of the acceler uniformly filling the acceptance. The is written out for linearly independent for an elliptical aperture. Condition	is of increasing accelerator of rator (the volume in phase space general equation of the accep	directions and
for an elliptical aperture.	1	
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L 26513-66

ACCESSION NR: AT6012260

celerator is focused on points inside the acceptance are then derived. In view of the mathematical difficulties involved in interpreting the four-dimensional results, the authors consider also the simpler problem, wherein injection of the beam into the accelerator is considered as the transformation of the phase volume of the beam (emittance) into the acceptance volume with minimum loss. It is concluded that to determine the maximum oscillation amplitudes in a linearly-focusing accelerator with independent focusing with respect to x and y, it is sufficient to measure the projection of the four-dimensional emittance on a given reference plane. To determine more complicated characteristics, such as the fraction of the beam which will have an oscillation amplitude below a certain specified value, or to determine the maximum density in the phase volume, it is necessary to measure the distribution of the beam density in four-dimensional phase space. However, if the emittance is bounded by a certain ellipsoidal surface, measurement of the particle density in two-dimensional projection (cross section) of the emittance is possible. The theoretical conclusions are compared with experimental data obtained at NIIEFA on the distribution of particles in the beam of a dual plasmatron injector, accelerated to approximately 600 keV (Pribory i tekhnika eksperimenta, in press). The variation of the phase volume of the beam as a function of the discharge current, the magnetic field in the ion source, the focusing voltage, and the particle energy were determined. The focusing voltages has practically no influence on the magnitude of the phase

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L 26513-66 ACCESSION NR: AT6012260		
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volume for a given current.	An increase in the discharge	e current and the magnetic
field in the ion source great	ly increase the current. The	he particle density in four
dimensional phase volume turn		
to check on this conclusion. maximum number of particles t		
eration. The estimates show		
sity of the particles in the	phase volume are very signi:	ficant for most modern ac-
sity of the particles in the celerators. Orig. art. has:	phase volume are very signit 22 formulas, 3 figures, and	ficant for most modern ac-
celerators. Orig. art. has:	22 formulas, 3 figures, and	d 2 tables.
sity of the particles in the celerators. Orig. art. has: SUB CODE: 20/ SUBM DATE: 0	22 formulas, 3 figures, and	d 2 tables.
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IJP(c) EWI(m) 2804(1-66 UR/0120/65/000/005/0030/0034 ACC NR: AP5027003 SOURCE CODE: Ivanov, N. F.; Sivkov, Yu. P.; Solnyshkov, A. I. AUTHOR: Scientific Research Institute of Electrophysics Equipment of GKAE Leningrad (Nauchno-issledovatel skiy institut elektrofizicheskoy apparatury GKAE) Measurement of phase space of the ion beam in the injector of a TITLE: linear accelerator Pribory i tekhnika eksperimenta, no. 5, 1965, 30-34 SOURCE: linear accelerator, proton beam TOPIC TAGS: ABSTRACT: The phase space was measured for an axisymmetric proton beam having an energy of 500 to 600 kev and a current of the order of hundreds of milliamperes. The distribution of the beam density in the phase space was reproduced on photographic film. Calculations of the beam parameters in the four-dimensional phase space was made in cylindrical coordinates. An equation was derived for the ellipsoidal phase space. The measurements were conducted by using a device similar to that described by L. E. Collins and P. T. Strout in Nucl. Instum. and Methods, 1964, 26, 157. However, the device used by the authors was provided with a photo-recording camera placed at 30 cm from the 0.06 mm IDC: 621.384.6.01 Card 1/2

L 28040-66

ACC NR: AP5027003

slits of two diaphragms. The device was shown in a photo and its action was explained. A MF-4 microphotometer was used for determining the density distribution recorded by the film. Then, the experimental data were analyzed and the results calculated. An example of the beam density distribution in a transverse phase space was mapped out in a diagram. The results obtained under different conditions and at the currents varying from 350 to 480 ma were summarized in a table. The current characteristics were plotted for four-and two-dimensional phase current characteristics were plotted for four-and two-dimensional phase spaces and for seven various operating conditions. The analysis of spaces and for seven various operating conditions. The dependence of ing voltage produced no effect upon the phase space. The dependence of the current on the two-dimensional phase space was more expressive. The highest current density obtained at 400 ma was equal to 120 ma/cmmrad. The thanks were expressed to I. M. Kapchinckiy and V. A. Batalin for the discussion of the results obtained in the experiments. Orig. art. has: 5 figures and 9 formulas.

SUB CODE: 18 / SUBM DATE: / 11Aug64 / ORIG REF: 002 / OTH REF: 004

Card 2/2 CC

L 07199-67 EWT(1)/EWT(m) IJF(c) AT	
ACC NR: AT6031752 SOURCE CODE: UR/3092/66/000/004/0003/0022	
AUTHOR: Ivanov, N. F.; Sivkov, Yu. P.; Solnyshkov, A. I.	
ORG: none	
TITLE: Characteristics of the ion beam produced by the injector of a linear accelera-	
tor	
SOURCE: Moscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury. Elektrofizicheskaya apparatura, no. 4, 1966, 3-22	- 1
TOPIC TAGS: ion beam, linear accelerator, plasmatron, preinjector	
ABSTRACT: The structure of a beam of ions with an energy of 500-700 kev obtained at the output of the proton-synchrocyclotron preinjector was investigated. The beam is designed for injection into a linear accelerator and for this reason the density distribution of ions over the phase space is the most important characteristic of the beam. Essentially, it determines the value of the current which can be captured by the linear accelerator. The transverse phase volume and the magnitude of the current were determined at a distance of approximately 1 meter from the output end of the focusing arrangement used in the linear accelerator. A proton source of the duoplasmatron type and the injector optics make it possible to obtain the crossover of the beam at this point when the maximum current is 500 ma, thereby providing for the op-	
Card 1/2	
Card 27.	

SOLNYSHKOV, V.A., mladshiy nauchnyy sotrudnik

Study of the discharge capacity of broad-crested weirs. Izv.
VNIIG 65:125-131 '60.

(Weirs)

SOLNYSHKOV, V.A., mladshiy nauchnyy sotrudnik

Utilization of hydroelectric power station turbines as spillways.

(MIRA 14:5)

Izv. VNIIG 65:133-138 '60.

(Spillways)

SOLMYSHKOV, V.A., red.; ARAHADZHYAN, I.R., red.; GOL'DIN, A.L., red.; ZHAROV, N.I., red.; IOKHEL'SON, A.Ya., red.; KRICHEVSKIY, I.Ye., red.; SKOMOROVSKIY, Ya.G., red.; SUDAKOV, V.B., red.; SHEVCHENKO, A.N., red.; RZHONSHITSKIY, B.N., red.

[Collection of reports on hydraulic engineering] Sbornik dokladov po gidrotekhnike. Moskva, Gosenergoizdat, 1963. 262 p. (MIRA 17:9)
1. Nauchno-tekhnicheskaya konferentsiya molodykh nauchnykh rabotnikov. 5th, Leningrad, 1959.

ARABADZHYAN, I.R., red.; IZMAYLOVA, R.A., red.; KRAYEV, G.A., red. [deceased]; KRICHEVSKIY, I.Ye., red.; SOKOLOV, I.B., red.; SOLNYSHKOV, V.A., red.; STREL'TSOVA, T.D., red.; FOMIN, G.D., red.; SHUL'MAN, S.G., red.; ABRAMSON, L.S., tekhn.red.

[Collection of papers on hydraulic engineering] Sbornik dokladov po gidrotekhnike. Moskva, Gosenergoizdat, 1962. 284 p. (MIRA 17:3)

1. Nauchno-tekhnicheskaya konferentsiya molodykh nauchnykh rabotnikov. 4th, 1962.

SOLNY SHKOV, Vol'fram Anatol'yevich; RZHONSNITSKIY, B.N., red.

[Study of the suction pipes of hydraulic turbines] Issledovaniia otsasyvaiushchikh trub gidroturbin. Moskva, Gosenergoizdat, 1962. 106 p. (MIRA 17:4)

SOLNYSHKOVA, 5 N.

Mechanism of the oxidation of microconcentrations of nitric oxide in the corona discharge. T. V. Zaholotskii and S. N. Sahoyshkova. Zhur. Obykelel Khim. (J. Gen. Chem.) 20, 1388-91-1970. In mixts. of O<sub>1</sub>, N<sub>2</sub>, and H<sub>2</sub>, contg. NO in conens of the order of 1 p.p.m., the NO is

oxidised to an extent varying between ta) and 100%, depending on the compn. of the gas. With high  $H_1$  contents  $(\sim 10\%)$ , no  $O_2$  and no  $N_cO_3$  are detected in the gas, and the degree of oxidation is  $\sim 50\%$ . With  $0.012 \cdot 0.00\%$ , other is still no  $N_cO_3$  in the products, and the degree of oxidation attains only 70%, with 0.000%,  $O_3$ . With the use of 0.007%  $O_4$ , some  $N_cO_3$  appears and the oxidation then reaches 100%; this occurs in gas masts, contg. not over 85%  $H_3$ , and not below 7%.  $O_4$ . With  $H_3$  contents higher than 65%, part of the  $O_3$  formed will be spent in oxidation of  $H_4$ , and the degree of oxidation of NO will remain below 100%0 even if the  $O_3$  content of the gas is increased; thus, with 85%1.  $H_3$  and 11%2.  $O_4$ , the  $O_4$  content is 0.00%2, no  $N_cO_3$  bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found, and the degree of oxidation of NO bring found in  $N_1$ 0, followed by  $N_2$ 0,  $N_3$ 1 and  $N_4$ 2.  $N_3$ 2 has exceeded for complete oxidation of NO in  $H_2$ -contg, gas mixts. The accelerating effect of the elect. discharge is demonstrated by a mixt, of  $N_1$ 3 with 1.5%0, and  $\sim 10$ 4 p.p.m.  $NO_3$ 5 in the elect. field, oxidation is complete, whereas without a field it attains only  $8 \cdot 10\%$ 6. The final  $O_3$  content is found to be 0.007%6. Introduction of preliminarily oxenized  $O_3$  offers no advantage over direct oxenization in the discharge.

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SOLOBAY, M. A., Cand Med Sci -- (diss) "Microbiological characteristics and certain data on the epidemiology of dysentery produced by Newcastle bacteria in the city of Odessa." Odessa, 1957. 15 pp (Odessa State Med Inst im N. I. Pirogov), 200 copies (KL, 2-58, 117)

-78-

KALASHNIKOV, V.I., (st. Chernovtsy); SHAMIS, I.M., glavnyy bukhgalter (st. Chernovtsy); SOLOBAYERO, L.D., ekonomist (st. Chernovtsy)

Advanced technology of car repair and improved cost accounting.
Zhel. dor. transp. 38 no.8:54-57 Ag '56. (MLRA 9:10)

1. Zamestitel' nachal'nika Chernovitskogo vagonnogo uchastka (for Kalashnikov).

(Railroads--Cars--Maintenance and repair)

S/194/62/000/008/032/100 ·· D201/D308

AUTHOR:

Solobayev, Sh.A.

TITLE:

Scientific and technical conference on telemechanization of the national economy of the USSR, Moscow,

November 16-21, 1959

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-2-180 m (Sb. nauchno-tekhn. inform. po elektrifik. s. kh. Vses. in-t n.-i. elektrifik. s. kh., 1961, no. 9, 60 - 61)

TEXT: 148 scientific and research institutes, design institutes and design offices were represented at the regular scientific and research conference on the problems of design and production of telemechanic and communication channel instrumentation, held in Moscow. 55 papers on production, design and utilization of telemechanic instrumentation were presented. It was pointed cut that the means of telemechanics find more and more applications in power engineering, petroleum and gas industry, pipeline transport, coal industry, agriculture and on railways. The fundamental trends in the Card 1/2

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S/194/62/000/008/032/100 D201/D308

Scientific and technical conference ...

development of the telemechanic instrumentation are as follows: 1) Creation of a single set of instruments for concentrated and scatte-L red objects; 2) automation of controlled and control points; 3) use of contactless elements. New works on HF-channel telemechanics, signal distortion in electric circuits and methods of investigating nal distortion in telemechanic channels were discussed. [Abstractive interference in telemechanic channels were discussed in the interference in telemechanic channels were discussed in the interference in telemechanic channels were discussed in the interference in telemechanic channels were discussed interference in telemechanic channels were discussed in the interfe

Card 2/2

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:	Chesnokov, Te. B., Candidate of Philosophical Sciences	Problems Concerning Philosophy of Modern Mahural Science (Filosofe- kiye voprosy sovrumennege yestestvomaniya)	Vestmik Akademii nemk SESE, 1959, Er l. pp 152-156 (USER)	At the end of October less year as All-Union conference took	Serves the test that the first process. The conference had been because the test of the first process. The conference had the flatest that the first process and the flatest that the first process of the first had pallocopy took part, among the Addminist process. The conference of the first had pallocopy took part, among the flatest process and pallocopy took part, among the flatest process and pallocopy took part, among the flatest process and framely additioned the conference of the conference of the conference of the conference of the conference to the pallocopy took	of the sablesments of sodern science and for rulting its level a which is intended to contribute towards a solution of the most important estentific problems in as short a period as president such were the ideas expressed by Acadesician A. N. Nessymov.	Traident of the 2d USEs and E. V. Outcoritation, of the Gonference on the cessates of that forgent greents.  **Second of that forgent greents.  **Butter, the following species and discounties and discounties and distortations and superioristics.  **Second of the force of the corid.  **Butter, the following species of the corid.  **Second of the corid of the corid.  **Butter, the following species of the corid.  **Second of the corid of the corid.  **Butter, the following the train of the difference of the corid.  **Butter, the following the train of the corid.  **Second of the theory of Full of the corid of the corid.  **Authernian in metro of the forms of accounts.  **Authernian of Corresponding Meshri, and the importance of the theory of Full introduction of the theory of Full introduction.  **Authernian of Corisoral of anterial science.  **Authernian of Corisoral of The corid of the importance of the theory of Full introduction.  **Authernian of Corisoral of The corid of the importance of the theory of Full introduction.  **Authernian of Corisoral of The corid of the importance of the theory of Full introduction.  **Authernian of Corisoral of The corid of the importance of the theory of Full introduction.  **Authernian of Corisoral of The corid of the importance of the theory of Full introduction.  **Authernian of Corisoral of the corid of the importance of the theory of	,
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SOLOBEY, I.N.

USSR/ Biology - Botany

card 1/1 :

Pub. 86 - 21/46

Authors

: Solobey, I. N.

Title

\* Water caltrop in bodies of water of forest areas

Periodical

Priroda, 43/9, 97-99, Sep 1954

Abstract

Description is given of water caltrop found in lakes and back waters of rivers in Byelorussia. A comparison is made of the food value of the seeds of this plant with maize corn, potatoes and wheat with figures of the percentages of proteins, fats, starch and sugar. Some directions are given as to methods of increasing the growth of water caltrop. Illustrations.

Institution

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Submitted

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#### CIA-RDP86-00513R001652210017-6 "APPROVED FOR RELEASE: 08/25/2000

SOLOBODYANIK, N. I.

Agricultural Machinery

Threshing, rubbing, and extracting vegetable seeds. N. I. Slobodyanik. Sel.i sem. 19, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. (NCLASSIFIED.

5(4) AUTHORS:

Miller, V. B., Neyman, M. B.,

SOV/76-33-2-35/45

Solobovnikov, S. P.

TITLE:

A Study of the Reaction of Isotopic Exchange Between CH2J2

and J2 by the Intermittent Illumination Method (Issledovaniye

reaktsii izotopnogo obmena mezhdu  $\mathrm{CH_2J_2^\#}$  i  $\mathrm{J_2}$  metodom

preryvistogo osveshcheniya)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 457 - 462 (USSR)

ABSTRACT:

The method mentioned in the title is based upon an impulse radiation (Ref 4) with a definite ratio between the illuminated and dark periods. This "pulsating" illumination is usually accomplished by means of a rotating disk with slits in it, which interrupts a light beam or allows it to penetrate the slits periodically. In the present work tagged methylene

iodide was used which was obtained from  $CH_2J_2$  and  $NaJ^{131}$ . The

Card 1, 3

A Study of the Reaction of Isotopic Exchange Between SOV/76-33-2-35/45  $CH_2J_2^*$  and  $J_2$  by the Intermittent Illumination Method

investigations were carried out using an apparatus (Fig 3) the reaction vessel of which was located in an air thermostat, and the reaction components could be separated after the experiment by adsorption of the iodine on silver. The irradiation was carried out using an SVESh-250-3 Hg lamp and the light impulses could be varied from 1 to  $10^{-4}$  seconds by means of a rotating disk. The exchange between  $CH_2J_2^*$  and  $J_2$  was tested in the dark in illuminations, under an iodine pressure of 0.2 mm and a methylene-iodide pressure of 1 mm and at  $30^{\circ}$ C. The experimental results obtained (Table) were represented in form of  $W_0/W_{\rm St}$  as a function of  $Ig\lambda$  ( $W_0$  = reaction rate (RR) at intermittent illumination;  $W_{\rm St}$  = (RR) with constant illumination) (Fig 6). The constant of the (RR) for the reaction  $CH_2J^*+J$  amounted to  $3\cdot 10^{-12}$  cm $^3/{\rm second}$ , and the value of the average life of the radicals was found to be:  $2\cdot 10^{-2}$  seconds. According to the mechanism  $CH_2J_2^*+h^3$ 

Card 2/3

A Study of the Reaction of Isotopic Exchange Between SOV/76-33-2-35/45  ${\rm CH_2J}$  and  ${\rm J_2}$  by the Intermittent Illumination Method

 $CH_2J^* + J^*(9)$  (and other reactions I - VI) the stationary concentration of the radicals was calculated to be  $2 \cdot 10^{13}$  cm<sup>-3</sup>. There are 6 figures, 1 table, and 4 references, 1 of which is

Soviet.

Akademiya nauk SSSR, Institut khimicheskoy fiziki Moskva (Moscow Institute of Chemical Physics of the Academy of ASSOCIATION:

Sciences, USSR)

SUBMITTED:

July 31, 1957

Card 3/3

CIA-RDP86-00513R001652210017-6" APPROVED FOR RELEASE: 08/25/2000

# z/056/63/020/002/005/007 E073/E135

AUTHOR:

Solochovnik, S.F.

TITLE:

Automatic machine for hardening long cylindrical

components

PERIODICAL: Hutnictví a strojírenství. Přehled technické a hospodárské literatury, v.20, no.2, 1963, 93,

abstract HS 63-1134. (Mashinostroyeniye, Kiev,

no.4, 1962, 36-37)

TEXT: The article describes an automatic hardening machine for high-frequency surface hardening of components. A sketch showing the operation of the machine is given, and a diagram of the last stage circuit breakers. The machine hardens 66 components

per hour. 2 figures.

Abstracter's note: Complete translation.

Card 1/1

BREDIKHIN, B.P.; SOLOD, B.A., master; CHERTKOV, I.Ye., pomoshchnik mastera; SHAMANOV, L.G., prepododavatel; KVASHIN, V.V., prepodavatel.

"Design and repair of diesel locomotives" by A.A.Poido, I.G. Kokoshinskii. Reviewed by:B.P.Bredikhin and others. Elek.i tepl.tiaga 3 no.9:p.3 of cover S 159. (MIRA 13:2)

1. Priyemshchik Glavnogo upravleniya lokomotivnogo khozyaystva Ministerstva putey soobshcheniya (for Bredikhin). 2. Depo Rtishchevo II, Privolzhskaya doroga (for Bredikhin, Solod, Chertkov). 3. Shkola mashinistov, stantsiya Penza, Kuybyshev-skaya doroga (for Shamanov, Kvashin).

(United States--Diesel locomotives)

(Poido, A.A.) (Kokoshinskii, I.G.)

SOLOD, G. I.

MAn Investigation of Certain Factors in the Longevity of Mine Conveyers (For Example, of the Reduction Gears of Scraping Bucket Conveyers). Cand Tech Sci, Moscow Mining Inst imeni I. V. Stalin, 30 Dec 54. (VM, 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

SOLOD, G.I., kand.tekhn.nauk.

Bifect of coal dust on the wear of reduction gear parts on mine haulage machinery. Nauch.trudy MGI no.15:53-62 55. (MIRA 10:10)

(Conveying machinery)

(Mine dusts) (Mechanical wear)

SOLOD, G.I., kand.tekhn.nauk

Structural changes in surface layers of steels under the effect

Structural changes in surface layers of steels under the effect

Of friction. Nauch.trudy MGI no.17:129-135 '56. (MIRA 10:11)

(Coal mining machinery) (Mechanical wear) (Metallography)

(Coal mining machinery) (Mechanical wear)

SOLOD, G.I., kand.tekhn.nauk

Incrensing the durability and operational dependability of transmission devices on mine haulage machines. Nauch.trudy MGI (MIRA 10:11) no.17:137-150 '56. (MIRA 10:12) (Conveying machinery--Transmission devices)

SOLCD, G.I.

Determining the resistance and power of flexible conveyers with supporting bed. Nauch.trudy MGI no. 20:119-124 158. (MIRA 11:8) (Conveying machinery)

(Mine haulage)

SHORIN, V.G., SOLOD, G.I.

Selecting basic parameters for trains in coel mines. Nauch. trudy
MGI no. 20:216-230 '58.

(Mine railroads--Cars)

GORBACHEV, B.G., BANK, A.S., SOLOD, G.I., SHORIN, V.G.

Inertia brakes for mine cars. Nauch. trudy MGI no. 20:248-258 '58.

(Mine railroads--Cars)

(Railroads--Brakes)

POLYAKOV, Nikolay Sergeyevich, prof.; SHTOKMAN, Il'ya Grigor'yevich, prof.; KOMAROVA, Yevgeniya Kuz'minichna, dotsent; SPIVAKOVSKIY, A.O., prof., retsenzent; ANDREYEV, A.V., dotsent, retsenzent; VASIL'YEV, N.V., dotsent, retsenzent; YEVNEVICH, A.V., dotsent, retsenzent; LOPATIN, S.I., dotsent, retsenzent; SOLOD, G.I., dotsent, retsenzent; SHAKHMEYSTER, L.G., dotsent, retsenzent; SHORIN, V.G., dotsent, retsenzent; SAMOYLYUK, N.D., inzh., retsenzent; KOLOMIYTSEV, A.D., otv.red.; SHKLYAR, S.Ya., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Problems and exercises on mine haulage] Sbornik zadach i uprazhnenii po rudnichnomu transportu. Izd.2., dop. i perer. Moskva. Ugletekhizdat, 1959. 256 p. (MIRA 13:4)

1. Chlen-korrespondent AN USSR (for Polyakov). 2. Chlen-korrespondent AN SSSR (for Spivakovskiy). 3. Kafedra rudnichnogo transporta Moskovskogo gornogo instituta (for Spivakovskiy, Andreyev, Vasil'yev, Yevnevich; Lopatin, Solod, Shakhmeyster, Shorin).

(Mine haulage)

# PHASE I BOOK EXPLOITATION SOV/5431

- Spivakovskiy, Aleksandr Onisimovich, Nikolay Deomidovich Samoylyuk, G. I. Solod, and Lev Grigor'yevich Shakhmeyster
- Podzemnyye konveyyernyye ustanovki (Underground Conveyer Installations) Moscow, Gosgortekhizdat, 1960. 478 p. Errata slip inserted. 5,000 copies printed.
- Resp. Ed.: A.O. Spivakovskiy; Ed. of Publishing House: A.D. Kolomeytsev; Tech. Eds.: V.L. Prozorovskaya and Z.A. Boldyreva.
- PURPOSE: This book is intended for engineering and technical personnel of the mining industry engaged in designing and operating underground conveyers; it may also be useful to students of mining institutes and mining tekhnikums.
- COVERAGE: The book describes underground conveyers used in the mining industry the USSR and abroad and the construction of their most important individual subassemblies and elements; the fundamentals of theory and calculations of underground scraper conveyers, belt conveyers, slat conveyers, and combined conveyers (new chain-belt and rope-belt conveyers) are discussed and basic reference material regarding USSR underground conveyers is presented.

Card 1/8

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R00	01652210017-6
The Tyround Conveyer Installations	
The first part of the book was written by N.D. Samojlyuk, Candidate Sciences; the second part by L. G. Shakhmeyster, Candidate of Technical by A.O. Spivakovskiy, Professor. Section 4 of Ch. VII (Part II) was 8 German, and 1 French.  TABLE OF CONTENTS:	of Technical ical Sciences; and the fourth written by English,
Preface	
PART I. SCRAPER CONVEYERS  1. General Concepts, Basic Types	3
1. General concepts, Basic Types 2. Single-chat.	
2. Single-chain conveyers with console scrapers and two branches 3. Single-chain conveyers with the scrapers and two branches	5 5
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## "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652210017-6

SPIVAKOVSKIY, A. O.; SOLOD, G. I. (docent)

"Model test of non-stationary processes on large band conveyor equipment." report submitted for Intl Conf on Conveyor Engineering & Construction Machinery, Magdeburg, E. Germany, 7-12 Sep 64.

caracterist! 3 of traction coreu strong and beleating the follow giver for the drive of multiple-transmission conveying, lzv.vyr.ucheb. cav.jgor.char. 7 no.9:105-112 %. (MIFA 18:1)

1. Moskovskiy institut radicelektronibi 1 gormoy elektromekhenisi. For komeniovang yezhegodney maachne-tekhnismeskiy konferentures starpy mivataley.

SOLOD, G.I., kand.tekhn.nauk; FUKHOV, Yu.S., gornyy inzh.

Experimental study of a test model of the KLK-1 belt cable conveyer. Ugol 39 no.11:34-38 N '64. (MIRA 18:2)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

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ANNURE /EV ALV.. prof.; GRIGOR'YEV, V.N., dousent: YEVNEVICH, A.V., prof.; SULOD, G.I., dotsent; SPIVAKOVSKIY, A.O., prof.; SHAKHMEYSTER, L.G., dotsent

"Mine transportation, a book edited by I.G. Shtokman. Ugol'
40 no.1:82 Ja '65. (MIRA 18:4)

1. Kafedra transportnykh mashin i kompleksov Moskovskogo instituta radioelektroniki i gornoy elektromekhaniki.

SMCL. F.

32570. Voprosy Fezariya Stegley Rasteniy Nozhom (Klinom). --- Vogl: Solod N. (!) F. Izvestiya Gruz. Nauch. -Issled. In-ta Gidrotekhniki i Melioratsii, t. 1, 1949, s. 107-26. --- Rezyuome Na Gruz. Yaz. --- Bigliogr: 10 Nazb.

SC: Letopis' Zhurnal'nykh Statey, Vol 44, Moskva, 1949

SOLOD, V. I.

"Certain Questions of the Effectiveness of the Breakdown of Coal by the Working Parts of Machines Which Work on the Coarse-Grind Principle." Cand Tech Sci, Moscow Mining Inst imeni I. V. Stalin, 30 Dec 54. (VM, 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Figher Educational Institutions (12) 50: Sum. No. 556, 24 Jun 55

SOLOD, V.I., kand.tekhn.nauk.

Forces needed for pressing rods into coal bodies. Nauch.trudy

MGI no.15:95-98 '55.

(Coal mining machinery--Testing)

(Dynamics)

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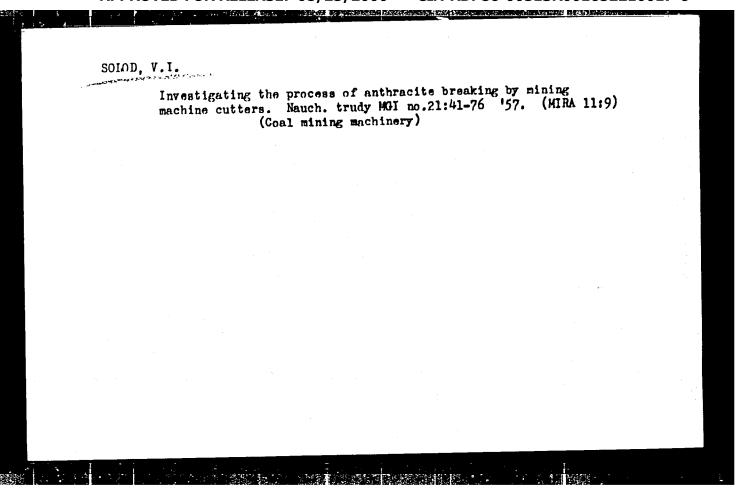
(MIRA 10:11)

SOLOD, V.I., kand.tekhn.nauk Correlation between forces acting on a coal mining machine cutter and the parameters of coal being detached from the block.

Nauch.trudy MGI no.17:75-83 '56.
(Coal mining machinery)

GETOPANOV, V.N., inzh.; KAZAK, Yu.N., inzh.; SOLOD, V.I., kand.tekhn.nauk

Mechanism of rock crushing by mining mechine cutters. Neuch.
trudy MGI no.17:85-92 '56. (MIRA 10:11)
(Cosl mining machinery)



.SOLOD, V.I., dotsent, kand. tekhn. nauk

Principles of calculating the pull of a ring-type chain working part. Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh. no.41:27-32 \*62. (MIRA 16:10)

A CORE CONTRACTOR CONTRACTOR OF THE SECOND

SOLOD, V.I., kand.tekhn.nauk; KARTAVYY, N.G., kand.tekhn.nauk

Preliminary results of introducing USB-2 coal plows in Donets
Basin mines. Ugol' 38 no.3:40-44 Mr 163.

(MIRA 18:3)

TOFCHIYEV, A.V.; SOLOD, V.I.; GETOFANOV, V.N.; KOVALI, P.V.

[Calculating the efficiency of mining cutter-loaders; methods of calculation] Raschet proizvoditel'nosti gornykh kombainov; metodika rascheta. Moskva, Nedra, 1965. 66 p. (MIRA 18:5)

POLODANTUK, I. Kiyev); BULANGV, A. (Kiyev)

System first of all. Voen. znan. 41 no.7:16-18 J1 '65. (MIRA 18:7)

05486 sov/141-2-2-11/22

Gvozdover, S.D. and Solodar', G.G.

Characteristic Equation of the Travelling-wave Tubes for AUTHORS: TITLE:

Medium Currents

Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, PERIODICAL:

1959, Vol 2, Nr 2, pp 229 - 243 (USSR)

A problem similar to that presented in this article has been dealt with earlier by S. Olving (Ref 2). A more ABSTRACT:

general approach to the problem is attempted here, it being assumed that the geometrical parameters of the tubes are arbitrary. The notation adopted is similar to that of earlier work (Ref 1). Also, a new function, defined by Eq (1), is introduced; this is plotted in Figure 1. The basic linearised equations of the system, derived under the assumption that the alternating components are

appreciably smaller than the direct ones, are similar to

those of Ref 1:

(2)M(aT, aT) = N(aT, bT)

where M, N and T are defined by Eqs (3), (4) and (5). Card1/4

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05486 sov/141-2-2-11/22

Characteristic Equation of the Travelling-wave Tubes for Medium Currents

The right-hand side term of Eq (2) can be represented in the form of Eqs (11). These can be expanded into the Taylor series so that N can be approximately represented by Eq (15). M of Eq (2) can be represented by Eqs (17). By Eq (15). M of Eq (2) can be represented by Eqs (17). This can also be expanded into the Taylor series as is shown in Eq (19). The final expression for M is given by Eq (24). By substituting Eqs (15) and (24) into by Eq (24). By substituting Eqs (15) and (24) into by Eq (2), an approximate algebraic equation, with X as Eq (2), an approximate algebraic equation is the unknown, is obtained. The resulting expression is in the form of Eq (24) or, finally:

 $X(1 + QBX)(X + L)^2 = -(1 - QX)^2$  (26a)

where B is defined by Eq (26B). If the tube is such that it fulfils the conditions defined by Eqs (28), the characteristic equation is simplified and can be written as Eq (29a). The function M can also be expanded by means of the asymptotic formulae provided the conditions of Eq (30) are fulfilled; in this case, the characteristic

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SOV/141-2-2-11/22

Characteristic Equation of the Travelling-wave Tubes for Medium Currents

equation is given by Eq (296) which coincides with Eq (29a). Similarly, it is possible to expand the function N by means of the asymptotic formulae and the characteristic equation is then in the form of Eq (30B). First, Eq (29a) is investigated for L=0, which represents the condition of complete synchronism. The equation is now written as Eq (36a), which is a standard cubic equation; the complex roots of the equation are plotted in Figure 2 (solid curves). In the case of narrow beams, the conditions of Eq (28a) are not fulfilled and it is necessary to solve the complete fourth-degree characteristic equation (see Eq 26a). The equation was solved for L = 0 for various values of B. Graphs illustrating the dependence of the roots of Eq (26a) on Q for B = 0.25 and B = -0.0635 are shown in Figure 7. It is seen that the equation always has a pair of complex conjugate roots having a positive real component. At small Q and B > 0, the equation has a pair of negative real roots which, for Q = Q, coincide and become a pair of

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SOV/141-2-2-11/22 Characteristic Equation of the Travelling-wave Tubes for Medium Currents

> complex conjugate roots. The paper contains an appendix which gives expressions for the roots of Eq (36a) (see Eqs 1-6A) and an asymptotic expression for the gain factor of the tube (see the Eq 6"A). From the analysis, it is concluded that the complete fourth-degree equation has complex roots (in the region which is of most practical interest) which do not differ appreciably from those of Eq (29a). The coefficient of depression derived on the basis of Eq (26a) is twice lower than that of the "smallcurrent theory".

There are 7 figures and 7 references, of which 6 are Soviet and 1 English.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: July 18, 1958

Card 4/4

FACC NRIAP7007721

SOURCE CODE: UR/0188/67/000/001/0043/0048

AUTHOR: Mamedli, R. M.; Solodar', G. G.; Yatsenko, L. A.

ORG: none

TITLE: Experimental study of a frequency multiplier based on a two-stage traveling-wave tube

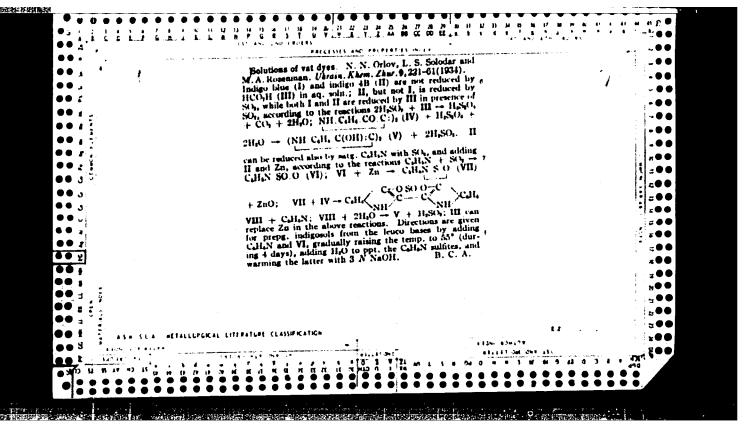
SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fisika, astronomiya, no. 1, 1967, 43-48

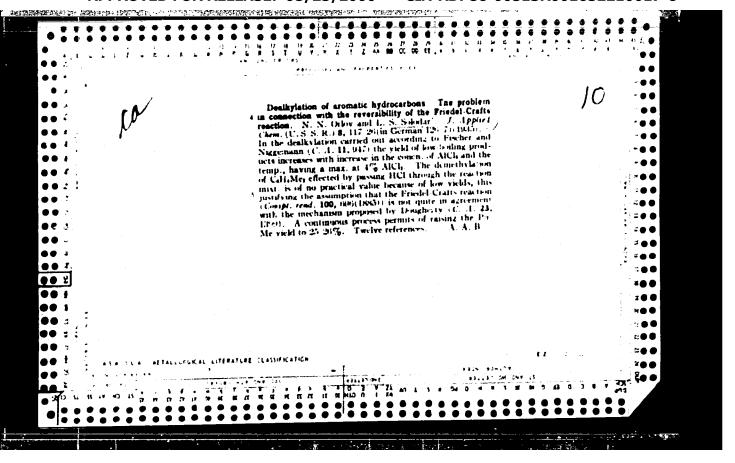
TOPIC TAGS: traveling wave tube, frequency multiplication

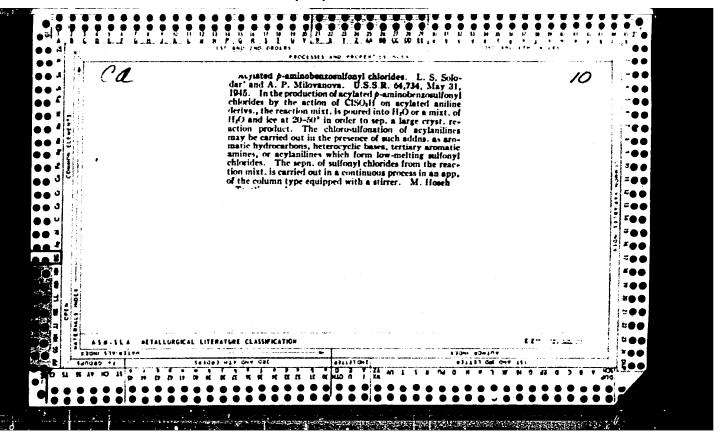
ABSTRACT: Results of an experimental study of a traveling-wave tube frequency multiplier with input and output frequencies between 3000 and 9000 Miz are given.
The multiplier (see Fig. 1) consists of an electron gun, two helical-type
delay structures separated by a drift space, and a collector. Both helixes
are impedance-matched to the inputs and the outputs with waveguides such

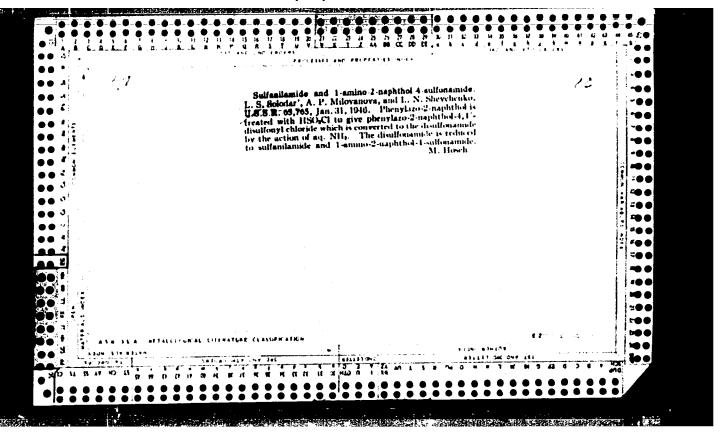
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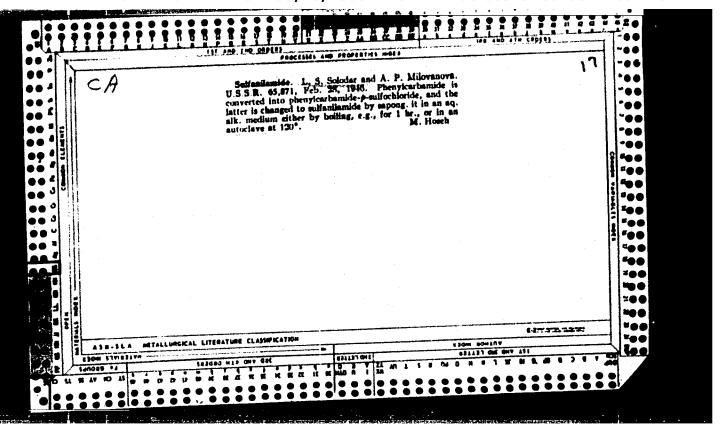
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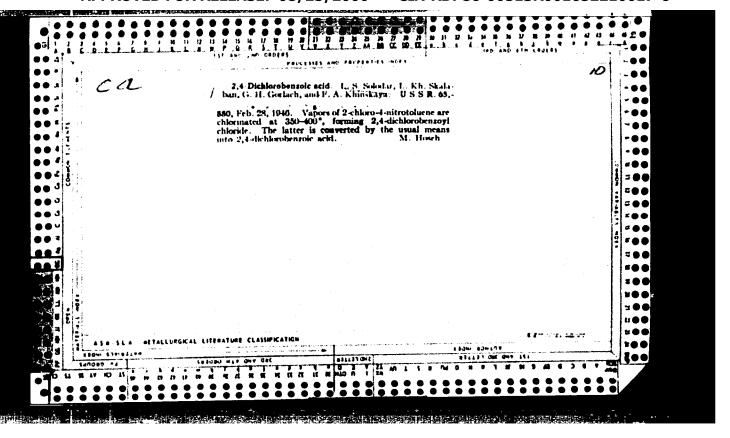


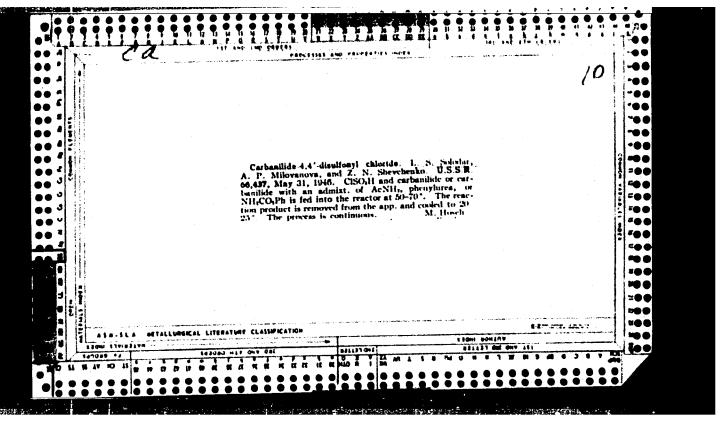


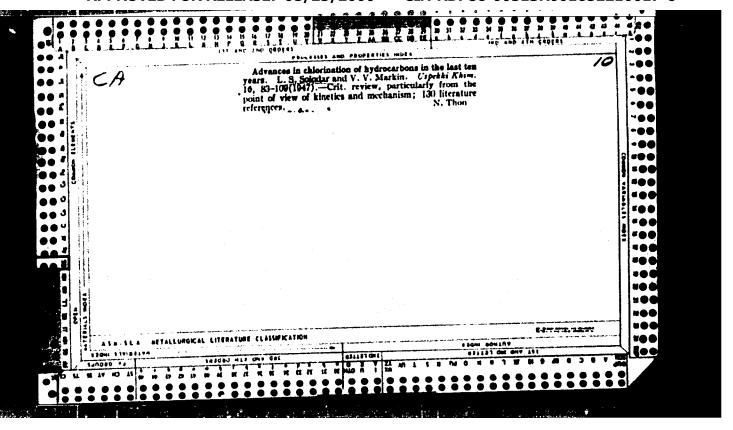












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Chlorosulfonation of acyl antitles 1. Role of sulfuria acid. L. S. Soloslar and Z. N. Shevchenko (Fsentral, Lab. Zavola, "Akrikhim"). Zhur. Priklad. Khim. (J. Applied Chem.) 22, 208-17(1949). -In the usual mode of chlorosulfonation of acylanthiles, such as AcNHPh, PhNHCO<sub>2</sub>Et. CO(SHPh)<sub>17</sub>, the predominant reaction occurs with CISO<sub>2</sub>H, while the H<sub>8</sub>SO<sub>4</sub> present in the reagent reacts to a limited extent only. Hence, the yields of RSO<sub>4</sub>H do not rise even upon increase of the H<sub>8</sub>SO<sub>4</sub> content in the maxt, provided that the constancy of the CISO<sub>2</sub>H H<sub>8</sub>SO<sub>5</sub> ratio is maintained. Heating the sulfonation maxts, above 50 (6) leads to conversion of RSO<sub>5</sub>Cl mto RSO<sub>5</sub>H, while increases with temp, and is higher for a claimbles with carbonyl or carbonichovy groups than for the Ac doiry, the rate of chlorosulfonation is similarly increased in the e-compile, over the Ac derity. The results, given graphically, indicate that chlorosulfonation of AcNHPh rises up to 70°, falling upon subsequent increase of temp to 00°, through the interconversion noted above, with PhNHCO<sub>6</sub>Rt the inflection occurs at 00°, the rically, a longer than increasery reaction period lowers the yield of RSO<sub>6</sub>Cl (essentially linearly) and the drop is most pronounced at higher temps, i.e. with increased conversion to RSO<sub>6</sub>H. Analysis of the reaction mixts, was done by decomput, with key filtration of the RSO<sub>6</sub>Cl, its hydrolyses, and derit, of ionic Cl, while the original filtrate is hydrolyzed with hot NaO<sub>1</sub>. The diaminotic acid resulting is intrated with NaNO<sub>1</sub>. The diaminotic heavy sulfone detrit is done by evapil, of the neutralized mass to dryness, extri with Mc<sub>1</sub>CO<sub>6</sub> addin of dil. HCl<sub>6</sub> conc., and (tration with NaNO<sub>1</sub>. H. Meckanism. Thal, 874 81(1949). Chlorosulfonation of AcNHPh and of PhNHCO<sub>6</sub>Rt at 20°, 00°, 70°, and 90° by the previously described to himpur (cl. part 1), proceeds in 3 stages: the early part of the process, during which a rapid rise of sulfone acids and sulfonyl chlurides takes place up to 15 mins, is followed by a

off of the RSGCI formation, while with PhNHCOLET the process of decre see of RSGCI takes place with a similationic rise of RSGCII, especially noted at 00 . A NHPh behaves analogously at 00 . The results, presented graphically, indicate that the conversion of RSGCI into RSGCI occurs by interaction of an addict of the starting material with ClSGGI with another mol of ClSGGI, vielding II SG, and HCI, however, the HCI balance proves that the formation of this intermediate is excluded, as essentially quant aints of HCI are evolved in the 1st step. The transformation in stage 4 is an irreversible reaction of RSGCI with HSG, apparently by acidolysis of the acyl group on the N; thus, heating p-AcNHCGI-SGCI with HSG, and ClSGJI gives a progressive increase with time and temp of SCAII derive at the expense of SGCI derive, while the yield of sulfamilic acid upon quenching the mixt, with ice water isso similarly. Conscially, lower temps, favor the preservation of RSGCI in such acidolyses. The reactions cited dove are shown on a discubated.

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UBSER/Chemistry - Chlorosulfonation Ang 49 Anilides  "The Mechanism of the Chlorosulfonating of Acylamides," L. S. Solodar, Z. N. Shevchenko, Cen Lab, "Akrikhin" Plant, 8 pp  "Zhur Prik Khim" Vol XXII, No 8  Studied the three-stage dynamics of chlorosulfonating and 90° C: the formation of the acylamilide sulfo chloride, and the acidolysis of the acylamilide sulfo chloride, and the acidolysis of the acylamino groups. Lowered temperatures decreased the 67/h9764  USSER/Chemistry . Chlorosulfonation Aug 49  USSER/Chemistry . Chlorosulfonation Aug 49  Ligreater yields of sulfo chloride. Submitted _ 15 Mar 49.  67/h9764
Jani- Ab,  Consting 70, ulfo ide lamino

MEKHAYLOVA, L.A.; GOLODAR', L.S.; OVCHINNIKOVA, Ye.A.; KOZYREVA, G.V.; SAMUROVA, S.I.; YEPHENOVA, L.N.

Reduction of n-nitrosalicylic acid in n-aminosalicylic acid.

Zhur.prikl.khim. 30 no.4:623-629 Ap '57. (MIRA 10:7)

1. Institut khimicheskikh reaktivov Akademii nauk SSSR. (Salicylic acid)

SOLODAR', L.S.; GURVICH, Ya.A.

1

Scientific research work at Dorogomilovskii Chemical Plant. Zav. lab. 26 no.12:1430-1432 \*60. (MIRA 13:12)

l. Nachal'nik TSentral'noy laboratorii Dorogomilovskogo khimicheskogo zavoda (for Solodar'). 2. Nachal'nik fizicheskoy laboratorii Dorogomilovskogo khimicheskogo zavoda (for Gurvich).

(Chemical laboratories)

SOLODAR, M.B., insh.

Reinforcing steel structures in main departments of open-hearth

Reinforcing steel structures in main departments of open-hearth

(MIRA 11:1)

(Open-hearth furnaces)

(Precast concrete construction)

SOLODAR', M.B.; DUDAVSKIY, A.I.

Possibilities for lowering construction costs of marine signal towers. Mat.po stal'.konstr. no.5:157-164 '59. (MIRA 13:8) (Deacons)

SOLODAR', M.B., inzh.

Improve designs of bunkers. Prom. stroi. 38 no.11:30-35 '60.

(MIRA 13:10)

1. Leningradskoye otdeleniye Gosudarstvennogo proyektonogo instituta Proyektstal'konstruktsiya.

(Ore dressing—Equipment and supplies)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210017-6"

More about calculating the three-dimensional work of the steel frame of a one-story industrial building. Prom. stroi. 40 (MIRA 16:3) [i.e. 41] no.4:59-61 Ap '63. (MIRA 16:3)

SOLODAR', M.B., inzh.

Some problems of design specialization and of the reliability of steel elements. Prom. stroi. 40 [i.e. 41], no.5:28-32 My (MIRA 16:5)

1. Leningradskoye otdeleniye Gosudarstvennogo instituta po proyektirovaniyu, issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov. (Steel, Structural)

SOLODAR', M.B., inzh.; BRYANCHANINOVA, O.A., inzh.

Efficient designs of joints of composite elements. Mont. i spets. rab. v stroi. 25 no.1:8-11 Ja 163. (MIRA 16:6)

1. Leningradskoye otdeleniye Gosudarstvennogo proyektnogo instituta po proyektirovaniyu, issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov.

(Building—Details)

SOLODAR', M.B., inzh.; PLISHKIN, Yu.S., inzh.

Defects in the design of steel elements for conveyor trestles. Prom. stroi. 41 no.7:33-36 J1 \*64. (MIRA 17:8)

1. Leningradskoye otdeleniye Gosudarstvennogo instituta po proyektirovaniyu, issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov.

SOLUBAR', M.B., Inch.; HICHKIM, Yu.S., inzh.

Problems of ingreasing the operational reliability of crane elements.

Prom.stroi. 42 no.11:9-13 N '64. (MIRA 18:8)

TO SECURE OF MANAGEMENTS OF PROPERTY OF THE SECURITIES.

ANNINSKIY, L.; LIKHAREV, B.; SOLODAR', TS.; KAZANTSKV, I., red.; ZHDANOVA, G., tekhn.red.

[Altai reporting; "Literaturnaia gazeta" in the virgin land,
August-September, 1959] Altaiskii reportazh; "Literaturnaia
gazeta" na tseline, avgust-sentiabr' 1959 g. Barnaul,
Altaiskoe knizhnoe isd-vo, 1960. 197 p.

(Altai Territory--Description and travel)

SOLODAR', Ye.R., inzh.

"Reduced cloth weave" for knitted lasting. Leg. prom. 18 no.8:33-74
(MIRA 11:9)
Ag '58.

(Knit goods)

# SOLODAR', Ye.N., inzh.

New book on knitting ("Double rib and reverse knitting machines in the technology of knitted clothes" by V.N.Esipenko, D.M. Potemkin. Reviewed by R.N.Solodar'). Tekst.prom. 19 no.1:87

[MIRA 12:1]

[Knitting machines] (Esipenko, V.N.) (Potemkin, D.M.)

GG/AT EWT(1) IJP(c) 27717-66 SOURCE CODE: UR/0051/66/020/003/0399/0407 ACC NR AP6011552 Ivanova, A. V.; Solodchenkova, S. A. AUTHOR: ORG: none TITLE: Quantum mechanical calculation of the coefficients of continuous absorption for certain components of strongly heated air SOURCE: Optika i spektroskopiya, v. 20, no. 3, 1966, 399-407 TOPIC TAGS: air, quantum theory, absorption coefficient, photoelectric effect, wave function, photoionization, free path ABSTRACT: The authors have carried out a quantum-mechanical calculation of the coefficients of continuous absorption for the ions NT and OTS, which have considerable concentrations in air heated to several hundred thousand degrees. The calculations are based on the method of self-consistent field with allowance for exchange. The temperatures 150,000-800,000K, densities 0.01-10, and spectral region 0.7-50 Ry were covered. Only the photoelectric absorption was taken into account in the calculations, since at the temperatures in question the bremsstrahlung absorption is negligible. The photoionization cross sections used in the calculations were calculated with the aid of Hartree-Fock wave functions previously calculated by one of the authors (Ivanova, Opt. i spektr. v. 16, 925, 1964). For some temperatures and for normal density, the values of the mean free path were also calculated. It is concluded from the results that: (a) Up to 300,000K the principal role in the absorption of air at normal density is played by the ground and first-excited states unc: 535.341.001.1 Card 1/2

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of NH and excited levexcited leve	0 <sup>+5</sup> . Sta rels of th rels become ift with if of the icon ch occurs	es predom ncreasing ns N <sup>+4</sup> an for the t	inant. ( temperat d 0 <sup>+5</sup> lie emperatur	b) The cure town in the cres 150,0 ding me	excited learner the learner th	onger way lose to to cooper and fi the obtained on	relength the Plar 500,0001 ined at the bas	as. (c) ack radi ( at ~2. 150,000 is of the	The ation 7, 5.5, ie	
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SUVOROV, S., kand.sel'skokhoz.nauk; SOLODENIKOV, L., inzh.

Study and calibration of the DKV-3 grain temperature regulating system. Muk.-elev. prom. 27 no.9:24-27 S '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego persrabotki. (Granaries--Heating and ventilation)

SOLODENIKOV, V.N. Selection of efficient parameters for a cable drum for mobile, electrically driven agricultural machines. Sel'khozmashina (MLRA 6: no.12:16-18 D '53. (MLRA 6:12)

1. Aspirant VIESKh.

(Agricultural machinery)

	ation: "Townstiction of the Driving Sear of the Cable Dric, of an Elec ric Sombine. of Doi, Joint Jei Suncil of All-Thion Dei has anst of Medianization of Agriculture and All-Union Dei has Inst of Electrification of Agriculture (TIVEL), 25 Day 54. yaya Nockva, Moscow, 14 May 54.								
						lo <b>v</b> 1954	2:4, 26	<b>30</b> ; 3 °	
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KULEBAKIN, V.S., akademik, redaktor; BUDZKO, I.A., doktor tekhnicheskikh nauk, redaktor; redaktor; GANELIN, A.M., kandidat tekhnicheskikh nauk, redaktor; DREVS. G.V., GLEBOVICH, A.A., kandidat tekhnicheskikh nauk, redaktor; LIBENSON, D.Ya., kandidat tekhnicheskikh nauk, redaktor; SIAVIN, P.M., kandidat tekhnicheskikh nauk, redaktor; SOLODENIKOV. V.H., kandidat tekhnicheskikh nauk, redaktor; SHUMILOVSKIY, N.N., doktor tekhnicheskikh nauk, redaktor; KURDYUKOV, K.P., kandidat tekhnicheskikh nauk, redaktor; redaktor izdatel stva; MOSKVICHEVA, N.I., tekhnicheskiy redaktor

[Automatization of work in agriculture; papers delivered at the conference November 25 - December 2, 1954] Avtomatizatsiia poroiz-vodstvennykh protsessov v sel'skom khoziaistve; materialy soveshchaniia, 25 noiabria - 2 dekabria. Moskva, Izd-vo Akademii nauk SSSR, 1956. 452 p. (MIRA 9:12)

1. Soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v sel'skom khozyaystve, 1954. 2. Institut avtomatiki i telemekhaniki AN SSSR (for Kulebakin). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Glebovich, Solodenikov)

(Automatic control) (Agriculture)

SOLOBENIKOV, V.N., kandidat tekhnicheskikh nauk.

Causes of slackening in cable tension and methods for controlling
it. Avt. i trakt. prem. no.1:31-34 Ja '56. (MLRA 9:6)

1.Vsesoyuznyy institut elektrifikatsii sel'skogo khozyayetva.

(Cables)

112-57-7-14610

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 123 (USSR)

AUTHOR: Solodenikov, V. N.

TITLE: Investigating the System of a Cable Take-up Device With a Cable-Reel Drive (Issledovaniye systemy kabelepriyemnogo ustroystva s privodom kabel'nogo barabana)

PERIODICAL: Nauch. tr. Vses. n.-i. in-ta elektrifik. s.-kh. (Scientific Works of the All-Union Scientific-Research Institute for Electrification of Agriculture), 1956, Nr 2, pp 95-122

ADSTRACT: A theoretical investigation is presented of the static and dynamic characteristics of a system comprising a cable take-up device and a cable-reel drive; the system is a part of electric tractors ET5, ETU-13, and KhTZ-15. An equation of constant cable tension is deduced, and the principal methods of tension regulation are set forth. Static characteristics of the cable take-up device and reel parameters during cable winding and unwinding are presented. Dynamic characteristics of the cable take-up system with non-regulated drive are analyzed, and a differential equation of the system is given. The following

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Investigating the System of a Cable Take-up Device With a Cable-Reel Drive

conclusions are offered: (1) the system comprising the reel (with cable) and the elastic dragging section of the cable is an oscillatory system; (2) natural oscillations of the cable span can be assumed to be continuous; (3) fluctuations in cable tension caused by the natural oscillations of the system are qualitatively influenced by the elastic characteristic of the cable; (4) conditions of cable work on the machine can be considerably improved by using joints with appropriate mechanical characteristics and, by means of a compensator, selecting a suitable elastic cable characteristic in the cable-duct; (5) calculation and analysis of the system with a non-regulating drive (within one cable layer on the reel) can be made with sufficient accuracy by using a linearized system equation.

I.V.I.

Card 2/2

SOLODENIKOV. V.N., kend. tekhn. nauk

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sel'khozmash no. 7:31-35 Jl '58.

1. Gosudarstvennaya nauchno-tekhnicheskaya konissiya(GHTK) SSSR.

(Farm menure)
(Farm equipment)

ANTYSHEV, P.I.; VASIL'YEV, V.M.; ZHARKOV, V.P.; LOZOVOY, V.I.; POPOV,
N.I.; PUZANOV, V.S.; PUZEYAKOV, V.A.; SMIRNOV, N.I.; SOLOMENIKOV,
V.N.; IUR'IEV, G.I.; KRYUKOV, V.L., red.; PEVZER, V.I., tekhn:red.

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(Agricultural machinery)

KOLOMIYTSXV, Petr Arked yevich; SOLOMENIKOV, Vladimir Nikolayevich;

YENISHARLOVA, O.M., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Complete utilization of organic wastes for the preparation
of high-quality fertilizers and of fuel gas (methane)]
Komplekance ispol zovenie organicheskikh otkhodov dlia polukomplekance ispol zovenie organicheskikh otkhodov dlia poluchenia vysokokachastvennykh udobrenii i goriuchago gasa
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(motana). Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno(motana). Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno(motana). Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno(motana). Woskva, Gos.nauchno-tekhn.izd-vo neft. i gorn

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(Agricultural machinery)

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SOLODENKO, G.

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(Rostov-on-Don-Agricultural machinery industry)

# PHASE I BOOK EXPLOITATION

sov/4552

- Ivanov, V. A., G. P. Solodenko, I. M. Gissin, and N. N. Ignatenko
- Kempleksnaya mekhanizatsiya i avtomatizatsiya na zavode Rostsel'mash (Full Mechanization and Automation at the Rostsel'mash [Rostov-na-Donu Agricultural Machinery] Plant). [Rostov-na-Donu] Rostovskoye knizhnoye izd-vo, 1959. 185 p. Errata slip inserted. 2,000 copies printed.
- Ed.: I. V. Zherebkov; Tech. Ed.: M. V. Marinyuk.
- FURPOSE: This book is intended for technical personnel in plants and design institutes, innovators in production and students of engineering schools of higher education.
- coverace: The authors present the results of experience gained from the mechanization and automation of the Rostsel'mash Plant. Problems of line production are discussed and ways for solving these problems are considered. The authors describe lines and installations adopted in assembly and press-forging shops. Special attention is paid to the mechanization of organic coating. The final section of the book deals with the full mechanization of foundry processes and

Card 1/2

SOLODENKO, G.P., inzh.; SAPOV, P.M., inzh.; ZHAVORONKO, P.I., inzh.; KOCHKA, V.T., inzh.

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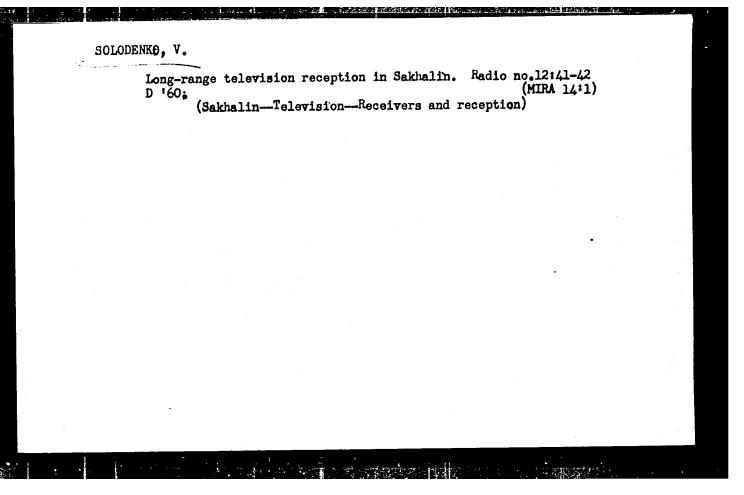
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